

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/898,616		07/02/2001	Aprile L. Pilon	116142/00170	3118
31013	7590	09/08/2005		EXAM	INER
KRAMER	LEVIN	NAFTALIS & FRA	LEE, BETTY L		
		ROPERTY DEPART THE AMERICAS	ART UNIT	PAPER NUMBER	
		, NY 10036		1647	

DATE MAILED: 09/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/898,616	PILON ET AL.
Office Action Summary	Examiner	Art Unit
	Betty Lee, Ph.D.	1647
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	rith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a ply within the statutory minimum of the statutory minimum of the statutory minimum of the statutory minimum of the statutory and will expire SIX (6) MO te, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>05 .</u> This action is FINAL . 2b) ☐ This action is application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal ma	
Disposition of Claims		
4)	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	cepted or b) objected to be drawing(s) be held in abeyaction is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attache	ed Office Action or form PTO-152.
Priority under 35 U.S.C. § 119	•	
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures * See the attached detailed Office action for a list	nts have been received. nts have been received in ority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s)	»□····	. C (DTO 442)
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/04) Paper No(s)/Mail Date 7/22/05. 	Paper No	Summary (PTO-413) b(s)/Mail Date Informal Patent Application (PTO-152)

DETAILED ACTION

The amendment filed 07/22/05 has been entered. Claims 1-103 are pending. Claims 1-34, 56-73 and 79-100 have been withdrawn from consideration as directed to non-elected subject matter. Claims 35-55, 74-78 and 101-103 are under examination. The text of those sections of Title 35 U.S. Code, not included in this action can be found in a prior office action.

Informalities

References 1-114 on pages 2-8 of the information disclosure statement (IDS) filed 7/22/05 fail to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because the references were not included with the IDS. The IDS has been placed in the application file, but the information referred to therein has not been considered as to the merits. Only the patents and foreign patents listed on pg 1 and the last page have been considered. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609 ¶ C(1).

Claim Rejections/Objections Maintained Claim Rejections - 35 USC § 112

The rejection of claim 36 under 35 U.S.C. 112, second paragraph, is maintained for reasons of record. Sequence Identifiers (SEQ ID Nos.) denote nucleic acid sequences, not genes per se. It is not clear if applicant intends the synthetic gene to consist of the nucleotide sequence of SEQ ID NO: 1, 2, 3, or 4 or whether the term "gene" denotes that other (unidentified) components may be present. The metes and bounds of what a synthetic gene encompasses are unclear.

The rejection of claim 50 under 35 U.S.C. 112, second paragraph, is maintained for reasons of record because the amended claim still has the phrase 'SEQ ID Nos 1-4'.

The rejection of claims 74-78 is maintained for reasons of record. The amendment to claim 74 with the phrase 'a step of claim 35 which precedes the step within the process of claim 35 from which said samples of intermediates were taken' is still indefinite. Claim 35 does not include any step (a-i) that mentions 'intermediates' and it is unclear when the samples of intermediates can be taken. Therefore, the rejection is maintained.

Claim Rejections - 35 USC § 103

The rejection of claim 49 under 35 U.S.C. 103(a) as unpatentable over Torkkeli et al (Biochim. Biophys Acta 544(3): 578-592, 1978) in view of Anderssson et al (J. Biol. Chem. 269 (29):19081-19087, 1994) and Mourot et al (Separation Science and Technology 24(5&6):353-367, 1989) is maintained for the reasons of record. Additionally, newly added claim 102 is rejected as unpatentable over Torkkeli et al (Biochim. Biophys Acta 544(3): 578-592, 1978) in view of Anderssson et al (J. Biol. Chem. 269 (29):19081-19087, 1994) and Mourot et al (Separation Science and Technology 24(5&6):353-367, 1989) for the same reasons.

Applicant failed to address the grounds of rejection in the amendment filed 7/22/05.

The rejection of claim 55 under U.S.C. 103 (a) as unpatentable over Andersson et al in view of Palmer *et al* (US Patent 4691009) and Shin is maintained for the reasons of record. Applicant's arguments have been fully considered but they are not persuasive.

Applicant argues that Andersson *et al* does not disclose or suggest the production of pharmaceutical grade rhUG, which is substantially free of endotoxin, nucleic acid and other contaminants. Applicant further argues that neither Palmer *et al* nor Shin *et al* teach the production of pharmaceutical grade rhUG. However, applicant's arguments are not commensurate in scope with the claim. The instant specification does not define the 'pharmaceutical grade' as meaning 'free of endotoxin, nucleic acid and other contaminants'. Motivation to make large quantities of pharmaceutical grade

rhUG is provided by Andersson *et al* who teaches that large quantities of puirified recombinant uteroglobin are desirable. As Palmer *et al* teach large scale production of recombinant proteins in fermenters and Shin *et al* teach fermentation as a key bioprocess technology for producing recombinant human insulin for the pharmaceutical industry, it would have been obvious for a person of ordinary skill in the art to combine their teachings. One of ordinary skill in the art would have had a reasonable expectation of success in obtaining pharmaceutical grade rhUG.

Double Patenting Maintained

The rejection of claims 35-55 and 74-78 under 35 U.S.C. 101 as being unpatentable over claims 35-41, 48-61 and 80-84 of copending Application No. 10187498 as claiming the same invention is maintained.

Applicant's request that the examiner hold the double patenting rejection in abeyance is noted; however, the provisional rejection is maintained until such time as the duplicate claims are removed from one of the conflicting applications.

New Claim Rejections Based on Amendments

Double Patenting

Claims 101-103 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 85-122 of copending Application No. 10187498. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 101-103 are drawn to a 'purified rhUG of pharmaceutical grade' and claims 85-122 of the copending application are drawn to a pharmaceutical composition comprising of purified rhUG.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 42 and 52 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. This is a new matter rejection. The phrase 'having an ionic capacity of between about 325 and about 475 μ eq' is new matter as the range does not appear to enjoy support in the original specification. This matter might be resolved if applicant were to point out where in the specification support for the newly recited material can be found.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betty Lee, Ph.D. whose telephone number is (571) 272-8152. The examiner can normally be reached on M-F 9 am-5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback can be reached on (571) 272-0961. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Art Unit: 1647

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BLL

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